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Exhibit A

CURRICULUM VITAE**Donald P. Braun, Ph.D.**

January, 2000

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PERSONAL: Born: New York, NY; March 7, 1950
SS # 355-44-2224
Married: Judy Braun
Children: Jennifer, Matthew, Bethany

EDUCATION AND TRAINING:

1972 University of Illinois, Urbana, IL, B.S. degree.
1974 University of Illinois at the Medical Center, Chicago, IL, M.S. degree.
1976 University of Illinois at the Medical Center, Chicago, IL, Ph.D. degree.

CHRONOLOGY OF EMPLOYMENT:

1976-1977 Research Associate, Department of Microbiology, University of Illinois at the Medical Center, Chicago, IL.
1977-1978 Instructor, Department of Microbiology, University of Illinois at the Medical Center, Chicago, IL
1978-1979 Research Associate, Section of Medical Oncology, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL.
1979-1980 Instructor, Department of Medicine; Assistant Professor, Department of Immunology/Microbiology, Rush Medical College, Chicago, IL.
1981-1983 Assistant Professor, Department of Medicine; Assistant Professor, Department of Immunology/ Microbiology, Rush Medical College, Chicago, IL.
1983-1987 Associate Professor, Department of Medicine; Assistant Professor, Department of Immunology/Microbiology, Rush Medical College, Chicago, IL.
1987 Associate Professor, Department of Medicine; Associate Professor, Department of Immunology/Microbiology, Rush Medical College, Chicago, IL.

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- 1989 Associate Director, Section of Medical Oncology (for Research); Associate Professor, Department of Medicine; Associate Professor, Department of Immunology/Microbiology, Rush Medical College, Chicago, IL.
- 1993-1999 Director, Scientific Program Development. Rush Cancer Institute.
- 1993-1999 Professor of Medicine and Immunology/Microbiology.
- 1999-present Administrative Director of the Cancer Institute, Medical College of Ohio
- 1999-present Professor, Department of Surgery, Medical College of Ohio.

FEDERAL GOVERNMENT/PUBLIC ADVISORY COMMITTEES:

- 1982-1984 Member, Experimental Therapeutics Study Section, National Cancer Institute.
- 1983, 1985 Member, Small Business Innovation Grant Review Study Section, NCI.
- 1985-1988 Member, Experimental Therapeutics I Study Section, NCI.
- 1985 Chairman, Experimental Therapeutics Special Study Section, NCI.
- 1985-1992 Biological Response Modifier Committee, Illinois Cancer Council
- 1986-present Reviewing Member, Arizona Disease Control Research Commission.
- 1988-1989 Member, Chicago Leukemia Research Society.
- 1988-1989 Member, Small Business Innovation Grant Review Study Section, NCI.
- 1990, 1993 Ad Hoc reviewer, Experimental Therapeutics Study Section 1, NCI.
- 1991, 1992 Ad Hoc reviewer, Immunology and Immunotherapy Study Section, American Cancer Society-National Division.
- 1994-1998 Member, Immunology and Immunotherapy Study Section, American Cancer Society-National Division.
- 1999-present Advisory Member, "Molecular Targets for therapy of Lung Cancer", National Cancer Institute/CTEP.
- 1999-present Advisory Member, Ohio Cancer Incidence Surveillance System
- 2000 American Cancer Society Immunology and Immunotherapy Study Section, National Division-ad hoc review.

CONSULTANT POSITIONS:

- Burrough's Wellcome, 1983-1984
- Pfizer Pharmaceutical, 1986-1988
- Boehringer Mannheim, 1991-1993
- Abbott Laboratories, 1993
- Institute for the Study and Treatment of Endometriosis, 1990-present
- Adeza Biomedical, 1993
- Imutec Corporation, 1993-present
- Imutec Corporation; Chairman, Medical Advisory Board, July, 1995-present.
- RxKinetic Inc.; Chairman, Medical Scientific Advisory Board. 1997-present.

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COMPETITIVE EXTRAMURAL GRANT AWARDS: (note: as Principal Investigator or co-Principal Investigator only)

1. "Cancer Drug Effects on Patient Suppressor Cells". Source: NIH/NCI # CA27598
Period of Support: 09/01/80-03/31/87; as co-Principal Investigator.
2. "Immune Testing in Lung CA During Specific Immunotherapy". Source: NIH/NCI # CA26138. Period of Support: 07/01/80-06/30/83; as co-Principal Investigator.
3. "A Phase I Clinical Trial of Natural and Recombinant Interleukin-2 (IL-2).
Source: NIH/NCI # RFA No-1-CM47667-BRM-MA01. Period of Support: 09/30/84-03/31/87. Subcontract from the Illinois Cancer Council; as Laboratory Principal Investigator for Rush Component.
4. "Phase IB and/or Phase II Clinical Trial of Natural and Recombinant Interleukin-2 (IL-2).
Source: NIH/NCI # RFA No-1 CM47667-03 BRM-MA-04. Period of Support: 09/29/85-02/28/89. Laboratory Principal Investigator for Rush Component.
5. "Arachidonate Metabolism in Cancer Patient Macrophages". Source: NIH/NCI # CA41741. Period of Support: 07/01/88-06/30/92; as Principal Investigator.
6. "LAK Function in Tumor-Infiltrating Leukocytes of Cancer Patients". Source: American Society of Clinical Oncology- 1990 Young Investigator Award to E. Staren, M.D.; as Mentor.
7. "Cancer Patient Macrophage Function in Tumor Environments". Source: NIH/NCI #CA58922. Period of Support: 12/31/92-07/01/96 as Principal Investigator.
8. "American Cancer Society New Investigator Grants in Cancer Research". Source: American Cancer Society. Period of Support: 06/31/95-07/01/97 as Principal Investigator.
9. "Cancer Drug Modulation of Tumor Sensitivity to Macrophages". Source: NIH/NCI, period of support: 12/01/00-11/30/05, as Principal Investigator. status-pending.
10. "Cyclooxygenase Metabolism in Cancer Patient Psychoneuroimmunology". Source: American Cancer Society. Period of Support: 01/01/01-12/31/06, as Principal Investigator. Status-pending.

NONCOMPETITIVE EXTRAMURAL FUNDING: (as principal or co-principal investigator)

1. "The Effect of CGS13080, CGS14854 and CGS53913 on Arachidonic Acid Metabolites and Immune Status of Patients with Solid Tumors". Source: Ciba-Geigy. Period of Support: 10/01/87-09/30/88; as Principal Investigator.

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2. "Phase III Protocol for Evaluation of Combined Modalities in the Treatment of Colonic Carcinoma with Positive Nodes, Duke's C, Surgical Resection Alone vs. Postoperative Immunotherapy followed by Chemotherapy". Source: Litton Institutes. Period of Support: 06/30/88-present; as Laboratory Principal Investigator for Rush.
3. "Immunologic Testing and Limited Feldene Administration to Patients with Upper Aerodigestive Tract Squamous Cancer". Source: Pfiser Laboratories, Pfiser Inc. Period of Support: 10/01/89-06/30/91; as Principal Investigator.
4. "Macrophage Function in Women with Endometriosis". Source: Sterling International. Period of Support: 04/01/90-10/01/91; as Principal Investigator for Rush component.
5. "Macrophage Regulation of Endometrial Cell Growth in Women with Endometriosis". Source: Sterling International. Period of Support: 03/01/92-10/01/93; as Principal Investigator for Rush component.
6. "Mechanisms for Modulation of Macrophage Tumoricidal Function in Cancer Patients by Virulizin". Source: Imutec Corporation. Period of Support: 02/01/94-12/01/95; as Principal Investigator.
7. "Immunological Modulation in Pancreatic Cancer Patients treated with Virulizin". Source: Imutec International. Period of Support: 06/30/96-12/31/98; as Principal Investigator.
8. "Modulation of Macrophage Cytolytic Function by Virulizin in Endometriosis". Source: Imutec International. Period of Support: 06/30/96-12/31/97; as Principal Investigator.
9. "Interaction of HIP/PCA particles with leukocytes from Cancer Patients". Source: RxKinetix. Period of Support: 01/01/98 - 08/31/2001; as Principal Investigator.
10. "Endothelin Regulation of Tumor Proliferation and Apoptosis in Human Intracranial Malignancy". Source: Abott Laboratories. Period of Support (pending-to begin in 2000); as Principal Investigator.
11. "Amelioration of TNF α effects in endometriosis by Enbrel". Source: Immunex Corp. Period of support: 01/01/00-06/30/01. As Laboratory Principal Investigator.
11. "H11 binding to human cancer cells". Source: Novopharm Biotechnology. Period of Support: 05/01/00-09/01/01. As Principal Investigator.

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HONORS:

USPHS Immunology Trainee, 1973-1974.
USPHA Oncology Trainee, 1974-1976.
Milan V. Novak Award, University of Illinois, Department of Microbiology, 1977.
Who's Who in Cancer Research, 1985
American Men and Women in Science, 1988
1st place award for original research, American Fertility Society, 1992.
Chairman, Poster-Discussion Session, AACR, 1994.
Chairman, Immunology Plenary Session, Vth International Conf. on Endometriosis, 1996.
Chairman, Rationale for Immunotherapy in Endometriosis: VI World Congress on
Endometriosis, Quebec City, Canada, 1998.

ACTIVE MEMBERSHIPS:

American Association for Cancer Research
American Chemical Society
American Association for the Advancement of Science
New York Academy of Science
Society of Biology Response Modifiers
American Fertility Society
American Society of Reproductive Medicine

PUBLICATIONS:

BOOKS EDITED:

1. Prostaglandin Inhibitors in Cancer Immunology and Immunotherapy. eds. JE Harris, DP Braun and KM Anderson. CRC Press, Boca Raton, FLA, 1994.

REVIEWS AND BOOK CHAPTERS:

1. Dray S, and Braun DP: Some perspectives on the transfer of cell mediated immunity by immune RNA. Mol Cell Biochem 25:15, 1979.
2. Braun DP, and Harris JE: Serial immune function testing to predict clinical disease relapse in patients with solid tumors. Cancer Immunol Immunother 15:165, 1983.
3. Harris JE, and Braun DP: The effect of cytotoxic drugs on immunoregulatory cell function in solid tumor cancer patients. Clin Immunol Newsletter 5:113-116, 1984.

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4. Braun DP, and Harris JE: Effects of cytotoxic chemotherapy on immune function in cancer patients. In: Proceedings of the 3rd International Symposium of the Evaluation of the Immunomodifiers, 1984.
5. Braun DP, and Harris JE: Modulation of the immune response by chemotherapy. In: The Modulation of Immunity. Mitchell MS (ed), Oxford: Pergamon Press, 1985.
6. Braun DP, and Harris JE: Effects of cytotoxic chemotherapy on immune function in cancer patients. Cancer Treat Symp 1:19-26, 1985.
7. Braun DP, and Harris JE: Cancer chemotherapy and its impact on the immune system. In: Fundamentals of Cancer Chemotherapy. Carter SK, and Hellman K (eds), New York: McGraw-Hill, pp 77-97, 1986.
8. Von Roenn J, Harris JE, and Braun DP: Suppressor cell function in solid tumor cancer patients. J Clin Oncol 5:150-159, 1987.
9. Dmowski WP, Braun DP and Gebel H: Endometriosis: Genetic and Immunologic Aspects. in: Current Concepts in Endometriosis. 2nd International Symposium on Endometriosis. Alan R. Liss, Inc. New York, p 99-122, 1989.
10. Dmowski WP, Braun DP and Gebel H: The Immune System in Endometriosis. in Modern Approaches to Endometriosis. J. Rock ed. Kluwer Academic Publishers, p 97-111, 1991.
11. Braun DP and Groenwald SL: The Immune System and Cancer. in Cancer Nursing: Principles and Practice. third edition. Groenwald SL and Goodman M eds. Jones and Bartlett, Boston, MA, pp 70-85, 1993.
12. Harris, J.E. and Braun, D.P.: Tumor Vaccination. in Cancer: Concept to Clinic. Medical Publishing Enterprises. Fair Lawn, NJ; E. Borden, ed. pp. 28-31, 1993.
13. Braun DP: The Impact of Prostaglandins on Cancer Patient Immunity. in Prostaglandin Inhibitors in Tumor Immunology and Immunotherapy. Harris JE, Braun DP and Anderson KM, eds. CRC Press, Boca Raton, Florida, pp. 109-129, 1994.
14. Dmowski WP, Gebel HM and Braun DP. The Role of Cell-Mediated Immunity in Pathogenesis of Endometriosis. Acta Obstet. Gynecol. Scand. Suppl. 73:7-14, 1994.
15. Dmowski WP and Braun DP. Immunological Aspects of Endometriosis. Contemp. Rev. Obstet. Gynaecol. 7: 167-171, 1995.

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16. Dmowski WP, Braun DP, and Rotman, C. Aspectos Immunologicos de la endometriosis. in Reproducion Humana. Remonhi, J, Simon C, Pellicer, A and Bonilla-Musoles, eds. McGraw Hill InterAmericana, Madrid, pp 195-204, 1996.
17. Braun DP and Dmowski WP. Endometriosis: Abnormal Endometrium and Dysfunctional Immune Response. Current Opinion in Obsterics and Gynecology. 10:365-369, 1998.
18. Dmowski WP, Gebel H, and Braun DP. Decreased Apoptosis and sensitivity to macrophage-mediated cytolysis of endometrial cells in endometriosis. Human Reproduction. In Press, 1999.

ARTICLES:

1. Braun DP, and Dray S: Immune RNA mediated transfer of tumor antigen responsiveness to unresponsive peritoneal exudate cells from tumor bearing animals. Cancer Res 37:4138-4144, 1977.
2. Mortensen RF, Braun DP, and Gewurz H: Effects of C-reactive protein on lymphocyte function. III. Inhibition of antigen-induced lymphocyte stimulation and lymphokine production. Cell Immunol 28:59-68, 1977.
3. Braun DP, Hengst J, Moykr M, and Dray S: Antitumor immunity in strain 2 guinea pigs immunized with KCl extracts of L2C tumor cells. J Natl Cancer Inst 60:899-903, 1978.
4. Mokyr M, Braun DP, Usher D, Reiter H, and Dray S: The development of *in vitro* and *in vivo* antitumor cytotoxicity in noncytotoxic, MOPC-315, tumor cells. Cancer Immunol Immunother 4:143-150, 1978.
5. Braun DP, Mokyr M, and Dray S: Generation of anti-MOPC-315 cytotoxicity in uneducated or *in vitro* educated spleen cells from normal or MOPC-315 tumor bearing mice pretreated *in vivo* with BCG. Cancer Res 38:1626-1631, 1978.
6. Mokyr M, Braun DP, and Dray S: Augmentation of antitumor cytotoxicity in spleen cells of MOPC-315 tumor bearers. In: Cancer Immunology: Experimental and Clinical. Crispin RG (ed), p 211, 1978.
7. Mokyr M, Braun DP, and Dray S: Augmentation of antitumor cytotoxicity in MOPC-315 tumor bearer spleen cells by depletion of glass adherent cells prior to *in vitro* education. Cancer Res 39:785, 1979.
8. Mokyr M, Bennett JA, Braun DP, Hengst JCD, Mitchell MS, and Dray S: Opposite effects of different strains or batches of the same strain of BCG on the *in vitro*

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- generation of syngeneic and allogeneic antitumor cytotoxicity. *J Natl Cancer Inst* 64:339, 1980.
9. Cobleigh MA, Braun DP, and Harris JE: Age dependent changes in human peripheral blood B cell and T cell subsets: Correlation with mitogen responsiveness. *Clin Immunol Immunopathol* 15:162, 1980.
 10. Braun DP, Cobleigh MA, and Harris JE: Selective effect of cytotoxic chemotherapy on immunoregulatory suppressor cells in solid tumor cancer patients. *In: Tumor Progression*. Crispen RG (ed), Philadelphia: Franklin Institute Press, pp 91-102, 1980.
 11. Braun DP, Cobleigh MA, and Harris JE: Multiple concurrent immunoregulatory defects in cancer patients whose peripheral blood leukocytes exhibit depressed PHA induced lympho blastogenesis. *Clin Immunol Immunopathol* 17:89, 1980.
 12. Cobleigh MA, Braun DP, and Harris JE: Quantitation of lymphocytes and T cell subsets (T_G and T_M cells) in disseminated solid tumor cancer patients. *J Natl Cancer Inst* 64:1041, 1980.
 13. Paque RE, Braun DP, and Dray S: Characterization of lymphoid cell RNA which modulates specific cellular immunity. *In: Second International Symposium on RNA in Development*. Academia Sinica, 1980.
 14. Braun DP, and Harris JE: Modulation of immune response by chemotherapy. *Pharmacol Ther* 14:89-122, 1981.
 15. Braun DP, and Harris JE: Effects of combination chemotherapy on immunoregulatory cells in the peripheral blood of solid tumor cancer patients: Correlation with rebound-overshoot immune function recovery. *Clin Immunol Immunopathol* 20:143, 1981.
 16. Braun DP, and Harris JE: Relationship of leukocyte numbers, immunoregulatory cell function and phytohemagglutinin responsiveness in cancer patients. *J Natl Cancer Inst* 67:809, 1981.
 17. Braun DP, Harris JE, Maximovich S, Marder R, and Lint TF: Chemiluminescence in peripheral blood mononuclear cells of solid tumor cancer patients. *Cancer Immunol Immunother* 12:31, 1981.
 18. Braun DP, Penn RD, Flannery AM, and Harris JE: Immunoregulatory cell function in peripheral blood of glioblastoma multiforme patients. *Neurosurg* 12:31, 1981.

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19. DeBoer KP, Braun DP, and Harris JE: Natural cytotoxicity and antibody dependent cytotoxicity in solid tumor cancer patients: Regulation by adherent cells. Clin Immunol Immunopathol 23:133, 1982.
20. Harris JE, DeBoer KP, Vahey AL, and Braun DP: The measurement of leukocyte subsets in the peripheral blood of solid tumor cancer patients using monoclonal antibody reagents. Med Pediatr Oncol 10:185, 1982.
21. Taylor SG IV, Saffold P, Braun DP, and Harris JE: T_G cell involvement in the leukocyte adherence inhibition phenomenon. J Natl Cancer Inst 68:549, 1982.
22. Braun DP, DeBoer KP, and Harris JE: Chemiluminescence, suppression and cytotoxicity in peripheral blood mononuclear cells from solid tumor cancer patients. Cancer Immunol Immunother 14:86, 1982.
23. Harris JE, Harris ZL, and Braun DP: Effect of interferon- α on indomethacin sensitive immunoregulatory cells. In: Proceedings of the 15th International Leukocyte Culture Conference. Parker JW, and O'Brien R (eds), Chichester, England: John Wiley and Sons, Ltd., p 635, 1983.
24. Chiu K, Harris JE, Kroin J, Slayton R, and Braun DP: The immunological response of Wistar rats to intracranially implanted C-6 glioma cell line. J Neurooncol 1:365-372, 1983.
25. Penn RD, Kroin JS, Harris JE, Chiu K, and Braun DP: Chronic intratumoral chemotherapy of a rat brain tumor with cisplatin and fluorouracil. Appl Neurophysiol 46:240-244, 1983.
26. Braun DP, Nisius S, Hollinshead AC, and Harris JE: Serial immune testing in surgically resected lung cancer patients. Cancer Immunol Immunother 15:114-121, 1983.
27. Braun DP, Harris ZL, Harris JE, Sandler S, Khandekar J, Locker G, Haid M, Gordon L, Shaw J, Cobleigh MA, and Gallagher P: The effect of interferon therapy on indomethacin sensitive immunoregulation in the peripheral blood mononuclear cells of renal cell carcinoma patients. J Biol Response Mod 2(3):251-262, 1983.
28. Van Epps SF, Stewart LD, Pandey JP, Fudenberg HH, Harris JE, and Braun DP: Immuno-globulin G heavy chain (Gm) allotypes in lung cancer. N Engl J Med 1983.
29. Braun DP, Harris JE, and Rubenstein M: Relationship of arachidonic acid metabolism to indomethacin sensitive immunoregulatory function and lymphocyte PGE sensitivity

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- in peripheral blood mononuclear cells of disseminated solid tumor cancer patients. *J Immunopharmacol* 6(3):227-236, 1984.
30. Braun DP, Penn RD, and Harris JE: Regulation of natural killer function by glass adherent cells in patients with primary intracranial malignancies. *Neurosurg* 15(1):29-33, 1984.
 31. Braun DP, and Harris JE: Effects of combination chemotherapy on PGE mediated immunoregulation in the peripheral blood mononuclear cells of solid tumor cancer patients. *J Biol Response Mod* 3:391-396, 1984.
 32. Braun DP, and Harris JE: Abnormal indomethacin sensitive suppression in peripheral blood mononuclear cells of cancer patients restricts augmentation by interleukin 2. *J Biol Response Mod* 3:533-540, 1984.
 33. Chiu KM, McPherson LH, Harris JE, and Braun DP: The separation of cytotoxic human peripheral blood monocytes into high and low phagocytic subsets by centrifugal elutriation. *J Leukocyte Biol* 36:729-737, 1984.
 34. Braun DP, and Harris JE: Effect of cytotoxic antineoplastic chemotherapy on immunoregulatory leukocytes measured with monoclonal antibodies. *Clin Immuno Immunopathol* 33(1):54-56, 1984.
 35. Leslie WT, Templeton A, and Braun DP: Kaposi's sarcoma in the acquired immune deficiency syndrome. *Med Pediatr Oncol* 12:336-342, 1984.
 36. Braun DP, and Harris JE: Effect of chemotherapy on NK function in the peripheral blood of cancer patients. *Cancer Immunol Immunother* 21:240-245, 1986.
 37. Braun DP, and Harris JE: Abnormal monocyte function in patients with Kaposi's sarcoma. *Cancer* 57:1501-1506, 1986.
 38. Janus TJ, Braun DP, and Harris JE: Modulation of lymphocyte responsiveness to phyto-hemagglutinin by micromolecular fibrinogen degradation products. *Clin Immunol Immuno-pathol* 41:26-34, 1986.
 39. Potempa LA, Gewurz H, Harris JE, and Braun DP: Stimulatory effects of the C-reactive protein subunit on monocyte function, including release of IL 1. *Protides Biol Fluids* 34:287-290, 1986.
 40. Braun DP, Bonomi PD, Taylor SG IV, and Harris JE: Modification of the effects of cytotoxic chemotherapy on the immune responses of cancer patients with a nonsteroidal anti-inflammatory drug, piroxicam. *J Biol Response Mod* 6:331-345, 1987.

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41. Harris JE, and Braun DP: Modulation of immune function in cancer patients. Clin Physiol Biochem 5:222-226, 1987.
42. Wiederhold MD, Ondrey F, Anderson KM, Braun DP, and Harris JE: Synthesis of eicosanoids by γ -interferon differentiated U937 cells. Clin Physiol Biochem 6:21-28, 1988.
43. McMannis JD, Fisher RI, Creekmore SP, Braun DP, Harris JE, and Ellis TM: *In vivo* effects of recombinant IL 1. I. Isolation of circulating Leu 19⁺ lymphokine activated killer effector cells from cancer patients receiving recombinant IL 2. J Immunol 140:1335-1340, 1988.
44. Harris JE, and Braun DP: Modulation of *in vitro* antitumor immunity in response to the biological activators of IL 1, γ -interferon, and GM-CSF in the peripheral blood of cancer patients receiving cytotoxic chemotherapy. Ann NY Acad Med 65:16-25, 1988.
45. Braun DP, Kessler H, Falk L, Paul D, Harris JE, Blaauw B, and Landay AL: Monocyte functional studies in asymptomatic HIV-infected individuals. J Clin Immunol 8:486-494, 1988.
46. Staren ED, Braun DP, Harris JE, Bines SD, and Economou SG: Lymphokine activated killer cell induction in the peripheral blood mononuclear cells of colon cancer patients. Surg Forum 39:447-449, 1988.
47. Ellis TM, Creekmore S, McMannis J, Braun DP, Harris JE, and Fisher RI: Appearance and phenotypic characterization of circulating Leu 19⁺ cells in cancer patients receiving recombinant interleukin 2. Cancer Res 48:6597-6602, 1988.
48. Braun DP, Taylor ST IV, and Harris JE: Modulation of immunity in cancer patients by prostaglandin antagonists. Prog Clin Biol Res 288:444-448, 1989.
49. Creekmore SP, Harris JE, Ellis TM, Braun DP, Cohen II, Bhoopalam N, Jassak PF, Cahill MA, Canzoneri CL, and Fisher RI: A phase I clinical trial of recombinant interleukin 2 by periodic 24 hour infusions. J Clin Oncol 7:276-284, 1989.
50. Staren ED, Economou SG, Harris JE, and Braun DP: Lymphokine activated killer cell induction in tumor infiltrating leukocytes from colon cancer patients. Cancer 64:2238-2242, 1989.
51. Braun DP, Siziopikou KP, Casey LC, and Harris JE: The *in vitro* development of cytotoxicity in response to granulocyte/macrophage colony stimulating factor or γ -interferon in the peripheral blood monocytes of patients with solid tumors. Modulation

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- by arachidonic acid metabolic inhibitors. *Cancer Immunol Immunother.* 32:55-61, 1990.
52. Harris JE, and Braun DP: The effect of aspirin and other cyclooxygenase inhibitors on antitumor immunity. In: *Aspirin towards 2000* (G. Fryers, editor). pp. 45-52. Royal Society of Medicine. 1990.
 53. Siziopikou KP, Harris JE, Casey L, Nawans Y and Braun DP. Impaired Tumoricidal Function of Alveolar Macrophages from Patients with Non-small Cell Lung Cancer. *Cancer*, 68:1035-1044, 1991.
 54. Braun, D.P., Gebel, H., Rana, N, Rotman, C, and Dmowski, W.P. Peritoneal Macrophage Function in Women with Endometriosis., *Fertility and Sterility* 57: 1203-1210, 1992.
 55. Harris, J.E. and Braun, D.P.: Abnormal immunoregulation in human cancer at the actual tumor site. In "Combination Therapies. Biological Response Modifiers in the Treatment of Cancer and Infectious Diseases. A. Goldstein, ed. Plenum Publishing, New York, pp. 197-206, 1992.
 56. Harris, J.E. and Braun, D.P.: Abnormal immunoregulation and the tumor dormant state in human cancer. In "Cellular Immune Mechanisms and Tumor Dormancy" (T. Stewart, editor). CRC Press, Boca Raton, FLA, pp. 261-280, 1992.
 57. Chu, E., Casey, L.C., Harris, J.E. and Braun, D.P. Suppression of the Development of Tumoricidal Function in Gamma Interferon-treated Human Peripheral Blood Monocytes by Lipopolysaccharide: The role of Cyclooxygenase Metabolites. *J. of Clin. Immunol.* 13: 49-57, 1993.
 58. Braun, DP, Ahn, M, Chu, E, Casey, L.C., Harris, JE, Wilbanks, G, and Siziopikou, KP. The sensitivity of macrophages from Different Anatomical Sites of Cancer Patients to Arachidonic Acid Metabolism. *Cancer Research* 53: 3362-3368, 1993.
 59. Braun, DP, Muriana M, Gebel H, Rotman C, Rana N and Dmowski WP. Monocyte-mediated enhancement of endometrial cell proliferation in women with endometriosis. *Fertility and Sterility* 61: 78-85, 1994.
 60. Braun, DP, Gebel H and Dmowski WP. Effect of danazol in vitro and in vivo on monocyte-mediated enhancement of endometrial cell proliferation in women with endometriosis. *Fertility and Sterility* 62: 89-95, 1994.

Donald P. Braun, Ph.D.

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61. Gebel HM, Braun DP, Rotman C, Rana N and Dmowski WP. Decreased in vitro production of IgG in women with severe endometriosis. *Amer. J. Reprod. Immunol.* 29: 124-130, 1993.
62. Dmowski WP, Gebel HM and Braun DP. The role of cell-mediated immunity in pathogenesis of endometriosis. *Acta Obstet Gynecol Scand* 159: 7-14, 1994.
63. Gebel HM, Rana N, Braun DP, and Dmowski WP. Differential Expression of VLAB1 (CD29) on monocytes from patients with endometriosis. *Amer J Reprod Immunol* 34: 317-322, 1995.
64. Rana N, Braun DP, Rotman C, Gebel HM and Dmowski WP. Cytokine Synthesis by peritoneal macrophages in patients with endometriosis. *Fertility Sterility*, 65: 925-931, 1996.
65. Braun DP, House R, Gebel HG, Rana N, and Dmowski WP. Cytokine synthesis by peripheral blood monocytes of patients with endometriosis. *Fertility and Sterility* 65: 1125-1129, 1996.
66. Braun DP and Preisler HD. Cytolytic Activity of Peripheral Blood Blast Cells from Patients with Acute Myeloid Leukemia. *Leukemia and Lymphoma* 27: 459-467, 1997.
67. Siziopikou KP, Ahn M, Casey LC, Silver M, and Braun DP. Augmentation of impaired tumoricidal function in alveolar macrophages from lung cancer patients by coculture with allogeneic lymphocytes. *Cancer Immunol. Immunother.* 45: 29-36, 1997.
68. Ahn M, Siziopikou KP, Casey LC, Harris JE and Braun DP. Suppression of tumoricidal function in alveolar macrophages from lung cancer patients by Interleukin-6. *Cancer Immunol. Immunother.* 45: 37-44, 1997.
69. Ono N, Glick R, Kroin J. Penn RD and Braun DP. Effect of IGF inhibitor on proliferation of rat C6 glioma and human glioma explants. Submitted to *J. Neurosurgery*.
70. Braun DP, Gebel HG, Rana N, and Dmowski WP. Cytolysis of eutopic and ectopic endometrial cells by peripheral blood monocytes and peritoneal macrophages in women with endometriosis. *Fertility and Sterility* 69: 1103-, 1998.
71. Gebel HG, Braun DP, Frame D, Tambur A, Rana N and Dmowski WP. Spontaneous Apoptosis in eutopic and ectopic endometrium from women with endometriosis. *Fertility and Sterility* 69: 1042-1047, 1998.

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72. Wong PY, Staren ED, Tereshkova N, and Braun DP: Functional Analysis of Tumor-infiltrating leukocytes in breast cancer patients. *J. Surg. Res.* 76: 95-103, 1998
73. Wilbanks GD, Ahn M, Beck DA and Braun DP. Antitumor cytotoxicity of peripheral blood monocytes and peritoneal macrophages from patients with gynecological malignancies. *Int. J. Gynecological Cancer* 9: 427-432, 1999.
74. Ferdinandi E, Braun DP, Liu C, Zee B, and Ely G. Virulizin: A Review of its Antineoplastic Activity. *Exp Opin. Invest. Drugs* 8: 1721-1735, 1999.
75. Ortegel JW, Staren ED, Faber LP, Warren WH and Braun, DP. Cytokine Biosynthesis by Tumor-Infiltrating T Lymphocytes from Human Non-Small Cell Lung Carcinoma. *Cancer Immunology and Immunotherapy*, 48:627, 2000.
76. Ortegel JW, Staren ED, Faber LP, Warren WH and Braun, DP. Modulation of Autologous Tumor cytotoxicity by Tumor-infiltrating Lymphocytes from non-Small Cell Lung Carcinoma by Type 2 Cytokines and Transforming Growth Factor- β . Submitted to *Journal of Cytokine Research*, 2000.
77. Dmowski, WP, Ding, J, Shen, J, Rana, N, Fernandez, BB, Braun, DP. Apoptosis in Endometrial Glandular and Stromal Cells in Women With and Without Endometriosis. Submitted to *Human Reproduction*, July 2000.

ABSTRACTS AND LETTERS:

1. Braun DP, and Dray S: Tumor immune RNA conversion of lymphoid cells of tumor-bearing mice from being unresponsive to responsive upon challenge with tumor specific antigen. *Cancer Res* 17:7, 1976.
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103. Braun DP, House R, Gebel HG, Rana N, and Dmowski WP. Macrophage functional changes in women with unexplained infertility identifies a subset of patients with subclinical endometriosis. Proceedings of the Vth World Congress on Endometriosis. Yokohama, Japan. October, 1996.
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105. Braun DP, Gebel HG, Rana N, and Dmowski WP. Cytolysis of endometrial cells (EC) by autologous peripheral blood monocytes (PBM) and peritoneal macrophages (PM) in women with endometriosis (Endo). Proceedings of the 52nd Annual Meeting, American Society of Reproductive Medicine, 1996.
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108. Braun, DP, Dmowski, WP. Stimulation of eutopic and ectopic endoetrial cell proliferation by autologous peritoneal fluids with endometriosis is due to tumor necrosis factor-alpha (TNF α). Oral Presentation, ASRM/CFAS '99 Conjoint Annual Meeting, Ontaior, Canada, September 25-30,1999.

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109. Ding, J, Shen, J, Braun, DP, Rana, N, Fernandez, BB, Dmowski, WP. Apoptosis in Endometrial Glandular and Stromal Cells in Women with and without Endometriosis. Oral Presentation, ASRM/CFAS '99 Conjoint Annual Meeting, Ontario, Canada, September 25-30, 1999.
110. Shen, J., Ding, J, Braun, DP, Rana, N, Dowbrowski, A, Dmowski, WP. Endometrial Macrophages May Be Involved in the Regulation of Endometrial Apoptosis. Poster Presentation, ASRM/CFAS '99 Conjoint Annual meeting, Ontario, Canada, September 25-30, 1999.
111. Ding, J, Shen, M, Gogacz, M, Braun, DP, Rana, N., Dmowski, WP. Endometrial Apoptosis Is Inhibited In Vitro by TNF α in Women with Endometriosis and Is Stimulated by TNF α in Healthy Women. Journal of the Society for Gynecologic Investigation, 2000.
112. Braun, DP, Ding, J, Shen, M, Gogacz, M., Dmowski, WP. Modulation of Endometrial Cell Apoptosis and Proliferation by Tumor Necrosis Factor in Women with Endometriosis. Journal of the Society for Gynecologic Investigation, 2000.
113. Ding, J, Gogacz, Shen, M, Braun, DP, Rana, N, Dmowski. Expression of TNF α Receptor Type-I Gene in Endometrial Cells from Women with and without Endometriosis. Submitted to American Society For Reproductive Medicine, 56th Annual Meeting, October 21-25, 2000, San Diego, California.

UNIVERSITY INSTRUCTION:

Course Director

Principles of Immunology. University of Illinois, Dept. of Microbiology, 1977.

Biology of Cancer. College of Nursing, Rush Presbyterian St. Luke's Medical Center, 1982.

Tumor Immunology. Department of Immunology, College of Medicine, Rush Presbyterian St. Luke's Medical Center, 1985.

The Basic Science of Oncology. Rush Cancer Institute. 1993-1995.

Lecturer

Basic and Clinical Immunology, Department of Immunology/Microbiology
Cellular Immunology, Department of Immunology/Microbiology

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Tumor Immunology, Department of Nursing
Pathophysiology of Malignant Disease, Department of Pathology
Medical Oncology Didactic Course

Organizing

Medical Oncology Didactic Lecture Series
Medical Oncology Research Seminar Series
Oncology Fellow Basic Sciences Journal Club

Advisory

Graduate Students Matriculated (5)
Dissertation Advisory Committees (18)
 As Chairman (2)
 As Advisor (5)
 As Member (11)
 Other Department (2)
 Other University (5; 4, University of Illinois, 1 Notre Dame)

UNIVERSITY COMMITTEES:

Student Judiciary Review
Academic Freedom, Chairman, 1994-1996
CED Review of Rush Medical College
Radiation Oncology Search Committee
General Surgery Search Committee
Department of Dermatology Search Committee
Department of OB/Gyn Search Committee
Faculty Council, 1996-1999.
Task Force on Interaction with Biomedical Industry, Chairman.
Academic Council

INVITED PRESENTATIONS:

1. Transfer of Plasmacytoma Immunity with Immune RNA Extracts from Tumor-bearing Balb/C mice. American Dental Association, Chicago, IL, 1977.
2. Principles of Cancer Immunology. University of Indiana School of Medicine. Gary, Indiana, 1978.

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3. Synergy between Cytotoxic Chemotherapy and Anti-Tumor Immunity in Solid Tumor Cancer Patients. Department of Pathology, University of Illinois Medical Center, Chicago, IL, 1979.
4. Selective Effects of Cytotoxic Chemotherapy on Suppressor Cells in Cancer Patients. Illinois Cancer Council, Chicago, IL, 1980.
5. Immunoregulatory Cell Function and Impaired Immunity in Patients with Gliomas. Department of Neurosurgery, Cook County Hospital, 1983.
6. Effect of Interferon Therapy on Prostaglandin-producing Suppressor Cells in Renal Cell Cancer Patients. Burroughs Wellcome, Research Triangle Park, North Carolina, 1984.
7. Changes in Prostaglandin Metabolism in Monocytes from Interferon-treated Cancer Patients. Department of Microbiology, University of South Florida, Tampa, Florida, 1985.
8. Potentiation of Immunity in Chemotherapy-Treated Cancer Patients. Northwestern School of Medicine, Cancer Center, Chicago, IL, 1985.
9. Prostaglandin-Producing Suppressor Cells in Cancer Patients and AIDS Patients. Department of Pathology, Loyola University School of Medicine, Chicago, IL, 1986.
10. Synergy between Chemotherapy and Immunity in Solid Tumor Cancer Patients. Roswell Park Memorial Institute, Grace Cancer Center, Buffalo, New York, 1986.
11. Modification of the Effects of Cancer Chemotherapy on Immune Responses in Lung Cancer Patients by Treatment with Piroxicam. Pfizer Pharmaceuticals, New Orleans, Louisiana, 1986.
12. Enhancement of Deficient Cellular Immunity in Head and Neck Cancer Patients Treated with Piroxicam. Pfizer Laboratories, Anaheim, California, 1987.
13. Modulation of Immunity in Cancer Patients by Prostaglandin Antagonists. Second International Conference on Immunity to Cancer. Williamsburg, Virginia, 1987.
14. Potential for Combining Cytotoxic Chemotherapy and Biological Response Modifiers in Cancer Patients. Illinois Cancer Council, Chicago, IL, 1988.
15. Monocyte Immunoregulatory Cell Function in HIV-Infected Patients. American Red Cross, Chicago, IL, 1988.

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16. Lymphokine Activated Killer Cell Function in Tumor Infiltrating Leukocytes from Colon Cancer Patients. Illinois Cancer Council Symposium on Biological Response Modifiers, Chicago, IL, 1988.
17. Principles of Cancer Immunology. Department of Surgery, Grant Hospital Chicago, IL, 1990.
18. Immune Function in Cancer Patients and the Effects of Chemotherapy. Lederle Laboratories Symposium. Chicago, IL, 1990.
19. Danazol Effects on Peritoneal Macrophage Function in Patients with Endometriosis. Sterling International. New York, NY, 1991.
20. Peritoneal Macrophage Function in Endometriosis. Chicago Association of Reproductive Endocrinology. Chicago, IL, 1991.
21. The Biology and Immunology of Cancer. American College of Surgeons, Chicago, IL, 1991.
22. Immunotherapy of Cancer Patients, Baxter/Bartels Oncology Focus Meeting. Chicago, IL, 1992.
23. Systemic and Local Tumor Immunity in Patients with Solid Tumors. Abbott Laboratories, Abbott Park, IL, 1992.
24. Modulation of Endometrial Cell Proliferation by Monocytes in Patients with Endometriosis. Chicago Association of Reproductive Endocrinology. Chicago, IL, 1992.
25. Modulation of Tumoricidal Function in Tumor-Associated Macrophages from Solid Tumor Patients. Section of Hematology/Oncology, University of Chicago Chicago, IL, 1992.
26. Stimulation of Endometrial Cell Proliferation by Monocytes in Endometriosis Patients. Adeza Biomedical Corp. Sunnyvale, CA. 1993.
27. Cytokine Synthesis by Circulating Monocytes in Patients with Endometriosis. Chicago Association of Reproductive Endocrinology. Chicago, IL, 1994.
28. Effects of Virulizin on Macrophage Functions of Cancer Patients. Hoffman LaRoche, Nutley, NJ, 1994.

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29. Macrophage Functional Changes in Unexplained Infertility. Chicago Association of Reproductive Endocrinology. Chicago, IL, 1995.
30. Differential Sensitivity of Ectopic and Eutopic Endometrial Cells to Macrophage-Mediated Cytolysis in Women with Endometriosis. Chicago Association of Reproductive Endocrinology. Chicago, IL, 1996.
31. Effects of Virulizin on Macrophage Functions of Cancer Patients and Women with Endometriosis. Schering Plough, NJ, 1996.
32. Chemotherapy-induced immune modulation in cancer patients. National Cancer Institute of Japan-Tokyo Japan, January, 1997.
33. Macrophage functions in cancer and endometriosis and its modulation by virulizin. Pharmacia. Milano, Italy, February, 1997.
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